	Application No.	Applicant(s)
	09/848,509	WHEAT ET AL.
Notice of Allowability	Examiner	Art Unit
	Monique M Wills	1746
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT OF THE NOTICE	OR REMAINS) CLOSED ir or other appropriate commu GHTS. This application is s	n this application. If not included
1. This communication is responsive to the RCE filed 10/19/20	<u>004</u> .	
2. The allowed claim(s) is/are 2-5,7-10,12-15,17-21 and 23-29).	
3. \square The drawings filed on <u>03 May 2001</u> are accepted by the Exa	aminer.	
 4. ☐ Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 		or (f).
2. Certified copies of the priority documents have		n No
3. Copies of the certified copies of the priority doc		
International Bureau (PCT Rule 17.2(a)).		application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" o noted below. Failure to timely comply will result in ABANDONME THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	f this communication to file ENT of this application.	a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submitt INFORMAL PATENT APPLICATION (PTO-152) which gives	ted. Note the attached EXA reason(s) why the oath or	MINER'S AMENDMENT or NOTICE OF declaration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must	be submitted.	
(a) 🔲 including changes required by the Notice of Draftsperso	n's Patent Drawing Review	(PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or	in the Office action of
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	4(c)) should be written on the header according to 37 CFF	e drawings in the front (not the back) of R 1.121(d).
 DEPOSIT OF and/or INFORMATION about the deposi attached Examiner's comment regarding REQUIREMENT Formula 	t of BIOLOGICAL MATE OR THE DEPOSIT OF BIO	RIAL must be submitted. Note the LOGICAL MATERIAL.
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. ☐ Notice of Info	ormal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🗌 Interview Su	mmary (PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08)		Mail Date Amendment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's S	Statement of Reasons for Allowance
of Biological Material	9. Other	
U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) Notice	ce of Allowability	Part of Paper No./Mail Date 20040915

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: claims 2,17,21 & 24-25 are allowable over the prior art of record, because the prior art is silent to a humidity control system for a fuel cell stack comprising a bypass line having one end connected between a gas supply and a humidifier and an opposite end connected between the outlet of the humidifier and the inlet of a fuel cell stack, wherein the valve located in the bypass line is a gas restriction valve or a throttle valve.

The prior art, such as Voss et al. U.S. Patent 6,106,964, teaches a humidity control system comprising a fuel cell stack, a humidifier and a valve member 160 that is either completely open or completely closed. There is no teaching or suggestion in Voss '964 for having restriction or throttle valves. Therefore, the instant claims are patentably distinct from Voss.

Claims 3,5,7,8,12,13,18,23 & 27-29 are allowable over the prior art of record, because the prior art is silent to a humidity control system for a fuel cell stack comprising: a proportional valve located in a bypass line, wherein said proportional valve being openable at a plurality of positions including a fully open position, a fully closed position, and a plurality of intermediate partially closed positions.

The prior art, such as Voss et al. U.S. Patent 6,106,964, teaches a humidity control system comprising a fuel cell stack, a humidifier and a valve member 160 that is either completely open or completely closed. There is no teaching or suggestion in Voss '964 for a proportional valve being openable at a plurality of positions including a fully open position, a fully closed position, and a plurality of intermediate partially closed positions. Therefore, the instant claims are patentably distinct from Voss.

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Claims 4,9,10,14,15,19,20 & 26 are allowable over the prior art of record, because the prior art is silent to a humidity control system for a fuel cell stack comprising: a humidifier including an inlet connected to a gas supply and an outlet; a fuel cell stack including an inlet that is connected to the outlet of the humidifier; a bypass line having one end connected between the gas supply and the humidifier and an opposite end connected between the outlet of the humidifier and the inlet of the fuel cell stack; wherein the valve is located in the bypass line; and a controller is connected between the humidity sensor and the valve.

The prior art, such as Voss et al. U.S. Patent 6,106,964, teaches a humidity control system comprising a fuel cell stack, a humidifier and a valve member 160. The reference is silent to a humidity sensor and controller connected to the humidity sensor to control the humidity of a valve located in the bypass line. Therefore, the instant claims are patentably distinct from Voss.

CONCLUSIONS

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Monique Wills whose telephone number is (571) 272-1309. The Examiner can normally be reached on Monday-Friday from 8:30am to 5:00 pm.

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If attempts to reach Examiner by telephone are unsuccessful, the Examiner's supervisor, Michael Barr, may be reached at 571-272-1414. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov.Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MW

11/15/04

MICHAEL BARR SUPERVISORY PATENT EXAMINER